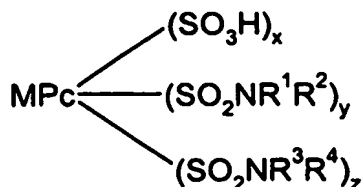


CLAIMS

1. A composition comprising:

(a) a major dye component which is a mixture of phthalocyanine dyes of Formula (1) and salts thereof:

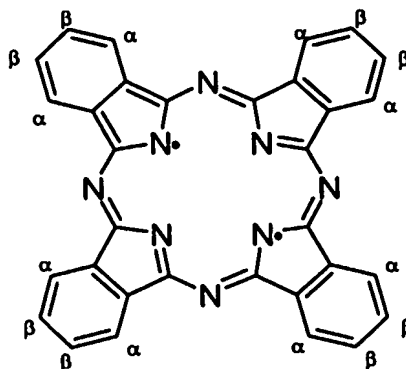


Formula (1)

wherein:

M is Cu or Ni;

Pc represents a phthalocyanine nucleus of formula



$\text{R}^1$ ,  $\text{R}^2$  and  $\text{R}^3$  independently are H or optionally substituted  $\text{C}_{1-4}$ alkyl;

$\text{R}^4$  is optionally substituted  $\text{C}_{1-4}$ -hydroxyalkyl;

x is 0.1 to 3.8;

y is 0.1 to 3.8;

z is 0.1 to 3.8;

the sum of (x+y+z) is 4; and

the substituents, represented by x, y and z, are attached to a  $\beta$  position on the phthalocyanine ring; and

(b) a liquid medium which comprises water, water and an organic solvent or an organic solvent free from water.

2. A composition according to claim 1 wherein  $\text{R}^1$ ,  $\text{R}^2$  and  $\text{R}^3$  independently are H or methyl.

3. A composition according to either claim 1 or claim 2 wherein  $R^4$  is unsubstituted  $C_{1-4}$ -hydroxyalkyl.

4. A composition according to any one of the preceding claims wherein  $R^1$ ,  $R^2$  and  $R^3$  are all H and  $R^4$  is  $-CH_2CH_2OH$ .

5. A composition according to any one of the preceding claims wherein M is Cu.

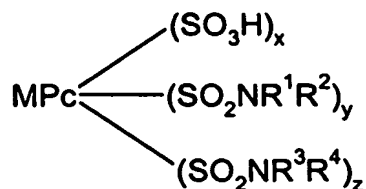
6. A composition according to any one of the preceding claims wherein x is less than 1.

7. A composition according to any one of the preceding claims wherein at least 70% by weight of the total amount of phthalocyanine dye in said composition is of Formula (1).

8. A composition according to any one of the preceding claims wherein at least 90% by weight of the total amount of phthalocyanine dye in said composition is of Formula (1).

9. A composition according to any one of the preceding claims which is an ink suitable for use in an ink-jet printer.

10. A mixture of dyes of Formula (2) and salts thereof:

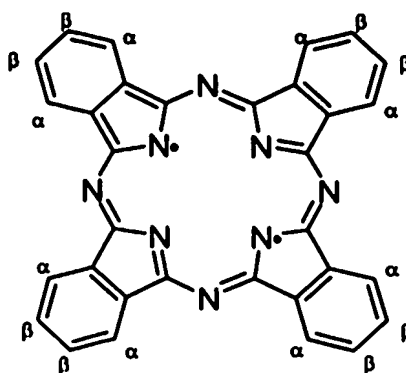


Formula (2)

wherein:

M is Cu or Ni;  
Pc represents a phthalocyanine nucleus of formula

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$R^1$ ,  $R^2$  and  $R^3$  independently are H or optionally substituted  $C_{1-4}$ alkyl;

$R^4$  is optionally substituted  $C_{1-4}$ -hydroxyalkyl;

x is 0.1 to 3.8;

y is 0.1 to 3.8;

z is 0.1 to 3.8;

the sum of  $(x+y+z)$  is 4; and

the substituents, represented by x, y and z, are attached to a  $\beta$  position on the phthalocyanine ring.

11. A mixture of dyes according to claim 10 wherein  $R^1$ ,  $R^2$  and  $R^3$  are all H and  $R^4$  is  $-\text{CH}_2\text{CH}_2\text{OH}$ .

12. A mixture of dyes according to either claim 10 or claim 11 wherein x is less than 1.

13. A process for forming an image on a substrate comprising applying an ink suitable for use in an ink-jet printer, as described in claim 9, thereto by means of an ink-jet printer.

14. A material printed with a composition according to any one of claims 1 to 9, dyes according to any one of claims 10 to 12 or by a process according to claim 13.

15. A material according to claim 14 which is a photograph printed using a process according to claim 13.

16. An ink-jet printer cartridge comprising a chamber and an ink wherein the ink is in the chamber and the ink is as defined in claim 9.